

CrystaLatch™ 4x4 Non-Blocking Switch Module

(Protected by U.S. patents 7224860, 6757101, and 6577430)

Product Description

The CrystaLatch™ (CL) type 4x4 fiber optic switch connects optical channels by redirecting any incoming optical signal into any selected output fiber. This is achieved using patented non-mechanical configurations and activated via an electrical control signal. It is a truly non-blocking switching matrix. Latching operation preserves the selected optical path after the drive signal has been removed. The all solid state CL 4x4 fiber optic switch features low insertion loss, high extinction ratio, high channel isolation, and extremely high reliability and repeatability.

It is designed to meet the most demanding switching requirements of continuous operation without failure, longevity, operation under shock /vibration environment and large temperature variations, and fast response time. Comes with computer interface and software.



Performance Specifications

CL Series 4x4 Switch	Min	Typical	Max	Unit
Operation Wavelength ^[1]	1520	1550	1580	nm
	1295	1310	1325	nm
Insertion Loss ^[2]		1.5	2.8	dB
Cross Talk	30			dB
Switch Speed (Rise, Fall)		50	200	µs
Repetition Rate		2K		Hz
Durability	10 ¹¹			cycle
Polarization Dependent Loss		0.1	0.3	dB
Polarization Mode Dispersion			0.2	ps
Return Loss ^[2]	50			dB
Operating Temperature	0		70	°C
Storage Temperature	-40		85	°C
Optical Power Handling ^[3]		300	500	mW
Switch type	Solid-State Latching			
Fiber Type	Corning SMF28			

[1]. L band version available, please call

[2]. Measured without connectors

[3]. High power version available.

Features

- Non-Blocking
- High Speed
- High Reliability
- Fail-Safe Latching
- Low Insertion Loss
- Rugged
- Compact
- Direct Low Voltage Drive

Applications

- Optical Signal Routing
- Network Protection
- Signal Monitoring
- Instrumentation

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Box: 230 x 145 x 54 mm

Driving kit with variety of control interface, such as USB, RJ45, RS232 with Windows™ GUI, is available.

Ordering Information

CLSW-	Type	Wavelength	Driver	Package	Fiber Type	Fiber Length	Connector
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	4x4=44 4x2=42 4x3=43 3x3=33	1310=3 1550=5 Special=0	No driving Kit=1 Driving Kit=2	Standard=1 Module in box=2 Special=0	SMF-28=1 Special=0 Bare fiber=1 900µm loose tube=3 Special=0	0.25m=1 0.5m=2 1.0m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Duplex LC=8 Special=0